

BRUHAT BANGALORE MAHANAGARA PALIKE									
Project Division Yelahanka Zone									
NAME OF WORK:- Comprehensive Development works in ward No. 03 Attur									
Name of Contractor :- AGENCY:- B.B.UMESHA (M/S SMLP Asphalts)									
Estimated cost: 1000.00 Lakhs									
Amount put to Tender as per Sanction : 92095644.00									
Agreement No. EE (Project)/AG No:173/2019-20									
Accepted Tendered Amount : 103147121.28									
Head of Account :									
EIRL -01 (PWD CSR 2018-19)									
Sl.No	Description	Unit	Qty	Rate	Amount	Whether the item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender	Whether the Extra item is in the sanctioned Estimate	Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included	Remarks
E1	Removing and Refixing stone slabs of drains and pointing in C.M(1:3) with all lead and lift and as per the direction of Engineer in -charge	Sqm	698.76	116.85	81652.81	yes	No	(Page no 27 , Item no 5.33 CSR 2018-19)	
E2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)	Cum	670.47	226.02	151541.29	yes	No	(Page no 143 , Item no 19.1 CSR 2018-19)	
E3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications. Page No.270. Item No.37.59.1	Cum	47.82	7636.68	365185.97	yes	No	(Page no 270 , Item no 37.59.1 CSR 2018-19)	
E4	KSRRB M 2200-6 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. MORTH Specification No 1600 & 2200 TMT Bars Fe 500 Page No 229 Item No 28.8.2 SR 2018-19	Tonne	3.36	75936.10	255054.16	yes	No	(Page no 229 , Item no 28.8.2 CSR 2018-19)	

E5	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc., complete with all lead and lift and as per the direction of Engineer in charge.	Sqm	465.84	779.03	362901.38	yes	No	(Page no 27, Item no 5.31.1 CSR 2018-19)
E6	KSRB 5.2-3. Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammered dressed in course not less than 20 cms high, bond stones at 2m. Apart in each course including cost materials, labours, curing complete as per specifications. KBS-5.1.13, cement mortar 1:6 KBS-5.1.13 (P.No-25, I.No-5.6).	Cum	108.00	5114.86	552404.97	yes	No	(Page no 25, Item no 5.6 CSR 2018-19)
E7	KSRB 4-1.6. Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC at 240kgs, with 20mm and down size granite metal coarse aggregates at 0.878 cum and fine aggregates at 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted in foundation, plinth and cills, including cost of materials, labours, HOM curing complete as per specifications. specifications No. KBS 4.1.4.2. (P.No-13, I.No4.6)	Cum	87.57	6034.11	528407.12	yes	No	(Page no 13, Item no 4.6 CSR 2018-19)
E8	KSRB 5-14: providing and constructing load bearing wall with solid concrete blocks of size 400mm*150mm*200mm having block density not less than 1800 kg/m ³ and having a minimum average compressive strength 4.00N/mm ² confirming to IS 2185(part) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, complete as per specifications. KBS No.5.4 I.No.5.26.2, page no 27	Sqm	517.60	1028.31	532255.36	yes	No	(Page no 27, Item no 5.26.2 CSR 2018-19)
E9	Providing and Fixing RCC pre cast covering Slab of 100mm thick for drains in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both side etc., complete as per drawing and the directions of Engineer in-charge. (Date rate)	Sqm	866.40	2453.62	2125812.90	yes	No	DATA RATE
E10	Providing and Fixing pre cast covering Slab 250mm thick made out of M25 and jelly 20mm Down size with steel reinforcement including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc complete As per Engineer incharge. (Data Rate)	Sqm	210.00	5688.36	1194555.18	yes	No	DATA RATE
E11	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	No's	2073.00	454.06	941267.94	yes	No	(Page no 27, Item no 5.3 CSR 2018-19)

E12	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications MORTH Chapter 8	Sqm	373.20	89.03	33226.00	yes	No	(Page no 140, Item no 24.15 CSR 2018-19)
E13	KSRRB M400-17 Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications with all lead and lift and as per direction of Engineer in-charge	Cum	939.60	2101.14	1974234.78	yes	No	(Page no 150, Item no 20.18 CSR 2018-19)
E14	KSRRB M500-6 Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg /sqm using mechanical means complete as per specifications with all lead and lift and as per the direction of Engineer in-charge	Sqm	4176.00	30.05	125481.02	yes	No	(Page no 158, Item no 21.60 CSR 2018-19)
E15	KSRRB 500-7 Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of materials, labour, HOM complete as per specification with all lead and lift and as per the direction of Engineer in-charge	Sqm	4176.00	13.35	55769.34	yes	No	(Page no 161, Item no 21.7 CSR 2018-19)
E16	KSRRB M500-17 Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications clause 505 of MORTH V revision using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 70mm) with 4.5% VG-30 bitumen with all lead and lift and as per the direction of Engineer in-charge	Cum	208.80	6926.65	1446284.99	yes	No	(Page no 160, Item no 21.17.6 CSR 2018-19)
E17	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP- 53-2015 do- using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade)	Cum	167.04	8140.82	1359842.51	yes	No	(Page no 171, Item no 21.78.12 CSR 2018-19)
E18	KSRRB M800-13 Road Marking with Hot Applied Thermoplastic Compound with Reflecting Glass Beads on Bituminous Surface- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications with all lead and lift and as per the direction of Engineer in-charge	Sqm	192.13	477.43	91730.51	yes	No	(Page no 182, Item no 24.15 CSR 2018-19)

E19	KSRIT 2.2.1 Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications, specification No. KHS 2.1(a) / 2.3.5 page no 6 item no 2.1	Cum	11.20	414.10	12819.97	yes	No	(Page no 06, Item no 2.30, CSR 2018-19)
E20	Fabricating providing and erecting in position of MS Hot Dip galvanized sq hollow poles of 132 x 132 heavy gauge length 3000mm with MS Hot Dip galvanized grill work as per approved design and drawing of chief architect using 12 x 75mm galvanized flat for around frame and 20 x 20mm galvanized forged ornamental arrow head in top and bottom the work is inclusive of throughling flat square rods placing welding all the joints including grinding finishing 2 coats of anticorrosive paint over one coat of metal primer the rate is inclusive of all materials all items of work cost painting welding cutting grinding with lead and lift as per specifications including loading and unloading with cost and conveyance of all materials labour machinery and incidental charges for the successful completion of the work as per direction of engineer in charge of work	Sqm	156.00	9800.43	1497667.48	yes	No	DATA RATE
E21	Fabricating, providing and erecting in position Hot dip galvanized Gate Using 72x72x4.8 mm Sq. GI Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanized sq rod for verticals at 150mm c/c as shown in the drawing including providing hot dip galvanized forged ornamental design in between rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50x6mm arch bent to hot dip galvanized flats. The work is inclusive of throughling GI, Flat GI, Sqm rods, placing, welding all the joints including grinding, finishing metal party, painting two coats enamel painting. The rate is inclusive of all materials Like GI Sq, GI Pipe, GI Forged designs etc. heavy duty hinges are made out of 75mm solid sq block assembled with 20mm dia bearing in three places for each flap. Heavy duty locking arrangement of low places including cost of labour, painting, erection charges using hoist pulleys cranes, with all lead and lift, loading, transportation, unloading, scaffolding charges and all other	Sqm	8.00	13087.53	104780.24	yes	No	DATA RATE
Total Rs					13792975.93			

Percentage excess over the
Amount put to Tender =

ERI Amount
Amount put to tender

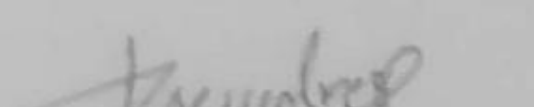
13792975.93
92895644.80

14.977

% age


Consultant


Engineer


Assistant Executive Engineer


Assistant Executive Engineer
Project Director, Yelahanka
District Bangalore Mahanagara Palike
Bangalore


Project Director, Yelahanka
District Bangalore Mahanagara Palike
Bangalore

BRUHAT BANGALORE MAHANAGAR PALIKE
Project Division Yelahanka Zone

NAME OF WORK:- Comprehensive Development works in ward No. 03 Attur
NAME OF CONTRACTOR:- AGENCY:- B.B.UMESHA (MS SMLP Asphalts)
Estimated cost: 1000.00 Lakhs
Amount put to Tender as per Sanction : 92095644.00
Agreement No. EE (Project)/AG No:173/2019-20
Accepted Tendered Amount : 103147121.28
Head of Account :

RATE ANALYSIS -Work Slip- WORKS (PWD CSR 2018-19)											
Sl No	Item Code	Page No	Description.	Unit	Basic Rate	Lift charges	Total	AW @ 6%	Total Rate	Add T.P (+) 4.99%	Final Rate.
1	19.14	143	KSRRB M300-14 Excavation for roadwork in all types of soil by mechanical means including cutting and loading to trippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No 301Loading and unloading with 10km lead= (1 No-19.14, P No-143)	Cu-m	41.00	25.6	66.60	2.46	69.06	3.45	72.51
2	20.2	153	KSRRB 400-2 Providing, laying, spreading and compacting specified graded, gravel or any other course material 60% and crushed stone aggregates of granite/trap/basalt 40% in sub-base course, close grading-1 including premixing the material at OMC in mechanical mixer (Pug mill), carriage of mixed material, spreading in uniform layers with motor grader on a prepared base and compacting with power roller to achieve the desired including all materials, labour, HOM lighting, guarding, barricading and maintenance of diversion complete as per specifications MORTH Chapter-20 Pg-153 I No-20.2	Cu-m	1,248.00		1248.00	99.84	1347.84	67.26	1415.10
3	19.64	147	KSRRB 300-58 Compaction of original ground by mechanical means including filling in depression occurring during rolling including cost of all labour, HOM complete as per specifications (I No-19.64, P No-147)	Sq-m	6.00		6.00	0.36	6.36	0.32	6.68

4	20.6	153	Construction of granular sub-base (grading) as per IS: 10443 and drainage layer by providing stone graded material above aggregates of granular material. Grading to be mechanical mix plant at CMU. Carriage of material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory roller roller to achieve the 98 % proctor density samples as per specifications Clause 401 of MORTH V Schedule 1 No. 20.5, P No-153)	Co-10	1,882.00		1,882.00	112.92	1,994.92	88.05	2,082.97
5	27.18	222	KERB M2708-10: Providing and laying 150mm concrete of mix 1:3:6 with OPC @ 220kg/m ³ with control joints and down side graded granular material concrete aggregates @ 0.40m and the aggregates @ 0.40m, in foundation mechanically mixed plant in foundation and supported by vibration including rolling by 14 days including cost of all materials labour HCM along with works, scaffolding and carrying charges as per specifications (P No-222, P No-27.18)	Co-10	6,118.00		6,118.00	206.80	6,324.80	270.55	6,595.35
6	22.6.3	176	Constructing un-reinforced plain concrete for pavements using Grade concrete M20 over a prepared base with OPC same aggregate at 0.40m the aggregates at 0.40m coarse and the aggregates conforming to IS: 3812 with Superplasticizer at 3% conforming to IS: 9075-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weight batcher as per approved design laid in approved form with form work channel laying and fixing of 125 micron mesh polythene film wedges steel plates including leveling the form work as per drawing) & Separation the concrete with sheets, rollers compacted using needles, screed and plate vibrator and finished with floaters in a construction and longitudinal joints including grooves cutting chisels joint the separation membrane of impermeable plastic sheet of 125 micron sealant primer joint sealant adhesives as approved curing compound, brushing to lines and grades textured with treading machine and curing including cost of all materials labour hire charges of machines as per specifications etc. concrete as per specifications with OPC AT 320 kg/cum and by each 40 kg/cum conforming to IS: 3812 coarse aggregate 0.40m fine aggregate 0.40cum Item No-22.6.3 Page No-176	Co-10	4,916.00		4,916.00	203.28	5,119.28	204.93	5,324.21

Consultant

Assistant Engineer

Assistant Executive Engineer
Project Division Yalahanka
B B M P
Bangalore

Executive Engineer,
Project Division Yalahanka
B B M P
Bangalore

BRLHAT BANGALORE MAHANAGARA PALIKE

Project Division Yelahanka Zone
NAME OF WORK:- Comprehensive Development works in ward No. 03 Attur

U.E.No. Y - BRL ME SHA (M S SMLP Asphalt)

Estimated cost: 1000.001 lakhs

Amount paid to Tender as per Sanction : 92095644.00

Agreement No. EE (Project)/AG No:173/2019-20

Accepted Tendered Amount : 103147121.28

Head of Account :

EIRL RATE ANALYSIS (PWD CSR 2018-19)

Sr No	Description	Unit	Page	Item	Basic Rate	Lift charge s	Total	AW @ 6%	Total	Add T.P (+)4.99 %	Final Rate.
CSR 2018-19											
01	Removing and Refilling stone slabs of drains and pointing in C.M. 1:3 with 60 mm sand and 10 mm pebbles as per the direction of Engineer in-charge	Sqm	27	5.33	105.00		105.00	6.30	111.30	5.45	116.85
02	Excavation for road drains and similar works according to the direction of Engineer in-charge by manual means in ordinary soil reaching an average horizontal depth upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of lumps complete as per specifications. MORTH Chapter 3 (P.No-102.1 No-19.1)	Cum	143	19.1	130.00	77.48	207.48	7.80	215.28	10.74	226.02
03	Providing and laying plain reinforced cement concrete for side drains using 1:2:4 concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregate at 0.41 cum machine mixed, well compacted for walls and bases including casting, shuttering, cost of materials, H.O.M. of workers, curing etc., complete including cost of steel as per MORTH specifications No. 1300, 1301, 2230, including cost of materials, labour, H.O.M. complete as per specifications. Page No 2270. Item No. 27.19.1	Cum	270	37.59.1	6862.00		6862.00	411.72	7273.72	362.96	7636.68
04	According to 22064 Providing T.M.T steel reinforcement for R.C.C work including transportation, cutting, bending, trucking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, H.O.M. of machinery complete as per specifications. Specifications No. MORTH Specifications No. 1600 & 2200 T.M.T Bars Fe 500 Page No 229 Item No 28.1.2 SR 2018-19	Tonnet	229	28.8.2	68233.00		68233.00	4093.98	72326.98	3609.12	75936.10

E8	Providing granite slabs of selected quality roughly dressed having a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing etc. complete with all lead and lift and as per the direction of Engineer in-charge.	Sqm	27	531.1	700.00	700.00	42.00	742.00	37.05	779.05		
E9	KSRB 5.2.3 Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar, stone hammerd dressed in course not less than 70 cms high, bond stones at 2m. Apart in each course including cost materials, labours, curing complete as per specifications. KRS-5.1.13, cement mortar 1:6 KRS-5.1.13 (P No-25, 1 No-5.6).	Cum	25	5.6	4096.00	4096.00	275.76	4871.76	243.10	5114.86		
E7	KSRB 4.1.6 Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC at 240kgs. with 20mm and down size granite metal coarse aggregates at 0.878 cum and fine aggregates at 0.51cum, machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted in foundation, plinth and gills, including cost of materials, labours, HONI curing complete as per specifications, specifications No. KRS 4.1.4.2 (P No-1, 1 No-6)	Cum	13	4.6	5472.00	5472.00	125.32	5747.32	286.79	6034.11		
E8	KSRB 5.1.4 providing and constructing lead bearing wall with solid concrete blocks of size 400mm*150mm*200mm having block density not less than 1800 kg/m ³ and having a minimum average compressive strength 4.00N/mm ² conforming to IS 2185(part) 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, complete as per specifications. KRS No.5.4.1 No.5.26.2, page no.27	Sqm	27	5.26.2	924.00	924.00	58.44	979.44	48.87	1028.31		
E9	Providing and Fixing RCC pre cast covering Slab of 100mm thick for drains in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both side etc. lift complete as per drawing and the directions of Engineer in-charge.(Data rate)	Sqm							2337	116.62	2453.62	
E10	Providing and Fixing pre cast covering Slab 250mm thick made out of M25 and jelly 20mm Down size with steel reinforcement including form work, curing, including cost of all materials, labour hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete As per Engineer incharge. (Data Rate)	Sqm								5418	270.36	5688.36

E11	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete	No's	27	5.3	408.00	408.00	24.48	432.48	21.58	454.06
E12	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications MORTH Chapter 8	Sqm	180	24.1	80.00	80.00	4.80	84.80	4.23	89.03
E13	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications, with all lead and lift and as per direction of Engineer In-charge	Cum	155	20.18	1888.00	1888.00	113.28	2001.28	99.86	2101.14
E14	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications with all lead and lift and as per the direction of Engineer in-charge	Sqm	158	21.6	27.00	27.00	1.62	28.62	1.43	30.05
E15	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of materials, labour, HDM complete as per specification with all lead and lift and as per the direction of Engineer in-charge.	Sqm	161	21.7	12.00	12.00	0.72	12.72	0.63	13.35
E16	KSRRB MSUP-17 Providing and laying Dense Graded Bituminous Macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications, clause 505 of MORTH V revision using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 70mm) with 4.5% VG-30 bitumen, with all lead and lift and as per the direction of Engineer in-	Cum	160	21.17.6	6224.00	6224.00	373.44	6597.44	329.21	6926.65

E17	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015, do- using 40-60 TPH capacity HMP with mechanical paver grading II / 30-45mm with 5.4% of modified bituminous binder.	Cum	171	21.78.12	7315.00		7315.00	438.90	7753.90	386.92	8140.82	
E18	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflecting Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC-35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications with all lead and lift and as per the direction of Engineer in-charge	Sqm	182	24.15	429.00		429.00	25.74	454.74	22.69	477.43	
E19	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 page no 6 item no 2.3	Cum	6	2.3	299.00	77.48	376.48	17.94	394.42	19.68	414.10	
E20	Fabricating providing and erecting in position of MS Hot Dip galvanized sq hollow poles of 132 x132 heavy gauge length 3000mm with MS Hot Dip galvanized grill work as per approved design and drawing of chief architect using 12 x75mm galvanized flat for around frame and 20 x 20mm galvanized forged ornamental arrow head in top and bottom the work is inclusive of throughing flat square rods placing welding all the joints including gridding finishing 2 coats of anticorrosive paint over one coat of metal primer the rate is inclusive of all materials all items of work cost painting welding cutting gridding with lead and lift as per specifications including loading and unloading with cost and conveyance of all materials labour machinery and incidental charges for the successful completion of the work as per direction of engineer in charge of work	Sqm				Data rate						
									9144.14	456.29	9600.43	

providing and erecting in position Hot dip galvanized pipes 150 mm dia. 100 mm Sq. 100 mm dia. 100 mm dia. including in every day labour, pipes with sand packing and hot dipping in zinc double with as per drawing profile. 70mm hot dip galvanized up and the verticals at 150mm sq. as shown in the drawing including providing hot dip galvanized forged ornamental flanges in between ends and heads at top, middle and bottom including supports of 75 mm and 100 mm and bent to hot dip galvanized bars. The work is inclusive of measuring C.I. Flat C.I. Squ. etc. erecting, welding all the joints including grinding, finishing and painting two coats enamel painting. The rate is inclusive of 10 mm dia. C.I. Sq. 100 mm dia. C.I. forged designs etc. heavy and light up and 100 mm sq. block assembled with plates in every day labour for each day. Heavy duty locking and supports of 100 mm including cost of labour, painting, erection and all the other items, with all head and lift, loading, unloading, unloading, unloading charges and all other	12475	622.50	13097.50
Sum			

Assistant Executive Engineer
 Project Division Yalahanka
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